

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2091	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 2091 Chase	A	7.51						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees	0.02		0.02	0.27%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.03	0.04		
<i>LMA Totals:</i>	0.02	0.00	0.02	0.27%	0.03	0.04	0.00	0.00

Unit No. 01 San Joaquin River RB	Overall Unit Rating	Total Unit Miles						
RD2091	A	7.46						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees	0.01		0.01	0.13%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.03	0.03		
<i>Unit Totals:</i>	0.01	0.00	0.01	0.13%	0.03	0.03	0.00	0.00

Unit No. 02 San Joaquin River NA	Overall Unit Rating	Total Unit Miles						
RD2091	M	0.05						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees	0.01		0.01	20.00%				
<i>Supplemental</i>								
DWR UCIP Field Study						0.01		
<i>Unit Totals:</i>	0.01	0.00	0.01	20.00%	0.00	0.01	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Reclamation District No. 2091 Chase

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2091 Chase

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	7.46
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/26/2015 - 05/26/2015		09/29/2015 - 09/29/2015	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Mike Alves RD 2091		Mike Alves RD 2091	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2	
LM End	0.00	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Operations & Maintenance Manuals				o	
					o	
DWR ID	DWR_RD2091_01_s _ 2013_2					
Action/Comments						
Inspector Comments: The LMA has copy of O & M manual on file at district office.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	4		
LM End	0.00	Issue Type +	Ma	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				o		o
					o		o
DWR ID	DWR_RD2091_01_s _ 2013_4						
Action/Comments							
Inspector Comments: The LMA maintains adequate flood fight supplies and equipment.							

No Photos

LM Start	0.00	Rating **	A	Issue No.	5		
LM End	0.00	Issue Type +	Ma	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_RD2091_01_s _ 2013_5						
Action/Comments							
Inspector Comments: The LMA maintains flood readiness.							

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	8
LM End	7.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation				°
					°
DWR ID	DWR_RD2091_01_f_2015_8				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: No visible problem noted.					

Photo 1 of 1 : FA_2015_RD2091_318_8_20151005_00010.jpg



Looking at typical view of levee landward slope.

LM Start	0.00	Rating **	A	Issue No.	13	
LM End	7.46	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation					°
						°
DWR ID	DWR_RD2091_01_f_2015_13					
Action/Comments						
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: No visible problems noted.						

Photo 1 of 1 : FA_2015_RD2091_318_13_20151005_00009.jpg



Looking at typical view of levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	0.08	Rating **	M	Issue No.	55
LM End	0.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541970 °	37.541970 °
				-121.093980 °	-121.093980 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:43207
 DS_ID:23155
 EP_NO: N/A
 FS_HLM: 0.072
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Appears abandoned and if so should be done so properly.
 FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 7.2 feet below crown. Slide gate in 36-inch corrugated metal pipe riser on the waterward slope. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 906+85.
 FS Date: 01/29/2015

LM Start	0.08	Rating **	M	Issue No.	55 (cont)
LM End	0.08	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_2557.jpg



CMP stormdrain at outlet off WS toe.

Photo 2 of 3 : UCIP_FA_2015_2558.jpg



Slide gate in 36-inch CMP riser on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	0.08	Rating **	M	Issue No.	55 (cont)
LM End	0.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541970 °	37.541970 °
				-121.093980 °	-121.093980 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43207					
DS_ID:23155					
EP_NO: N/A					
FS_HLM: 0.072					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_2559.jpg



Slide gate in 36-inch CMP riser on WS toe.

LM Start	0.10	Rating **	U	Issue No.	56
LM End	0.10	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.542030 °	37.542030 °
				-121.094370 °	-121.094370 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43204					
DS_ID:23156					
EP_NO: N/A					
FS_HLM: 0.095					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Pipe open on WS and slide gate has been removed.					
Appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee					
9.0 feet below crown. Slide gate in corrugated metal pipe riser on the					
waterward slope. Originally included in the 1961 O&M manual. As built					
drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 907+55.					
FS Date: 01/29/2015					

Photo 1 of 2 : UCIP_FA_2015_2459.jpg



36-inch CMP riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	0.10	Rating **	U	Issue No.	56 (cont)
LM End	0.10	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.542030 °	37.542030 °
				-121.094370 °	-121.094370 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:43204
DS_ID:23156
EP_NO: N/A
FS_HLM: 0.095
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: Pipe open on WS and slide gate has been removed. Appears abandoned and should be done so properly.
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 9.0 feet below crown. Slide gate in corrugated metal pipe riser on the waterward slope. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 907+55.
FS Date: 01/29/2015

Photo 2 of 2 : UCIP_FA_2015_2560.jpg



Slide gate missing from open end of pipe at WS slope.

LM Start	0.24	Rating **	U	Issue No.	57
LM End	0.24	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541564 °	37.541564 °
				-121.096792 °	-121.096792 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:43205
DS_ID:23158
EP_NO: N/A
FS_HLM: 0.234
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly.
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 10.0 feet below crown. Flap gate on the waterward end. Drain opening 15 feet off landward toe. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 915+00.
FS Date: 01/29/2015

Photo 1 of 3 : UCIP_FA_2015_2324.jpg



Flapgate has fallen off at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	0.24	Rating **	U	Issue No.	57 (cont)
LM End	0.24	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541564 °	37.541564 °
				-121.096792 °	-121.096792 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:43205
 DS_ID:23158
 EP_NO: N/A
 FS_HLM: 0.234
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly.
 FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 10.0 feet below crown. Flap gate on the waterward end. Drain opening 15 feet off landward toe. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 915+00.
 FS Date: 01/29/2015

LM Start	0.24	Rating **	U	Issue No.	57 (cont)
LM End	0.24	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_2325.jpg



Pipe visible in canal on WS toe.

Photo 3 of 3 : UCIP_FA_2015_2460.jpg



Concrete headwall under pipe at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	0.63	Rating **	U	Issue No.	58
LM End	0.63	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541220 °	37.541220 °
				-121.103880 °	-121.103880 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43208					
DS_ID:23161					
EP_NO: N/A					
FS_HLM: 0.638					
Repair Type: Urgent					
Crossing Status: Found					

LM Start	0.63	Rating **	U	Issue No.	58 (cont)
LM End	0.63	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_1953.jpg



24-inch CMP on concrete headwall with flapgate on WS toe.

Photo 2 of 2 : UCIP_FA_2015_1954.jpg



24-inch CMP on concrete headwall with flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	2.23	Rating **	A/W	Issue No.	54
LM End	2.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control				°
					°
DWR ID	DWR_RD2091_01_s _ 2012_54				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.14	Rating **	A/W	Issue No.	1
LM End	4.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.503555 °	37.503555 °
				-121.081932 °	-121.081932 °
DWR ID	DWR_RD2091_01_s _ 2012_1				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	4.59	Rating **	M	Issue No.	59
LM End	4.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.497390 °	37.497390 °
				-121.080370 °	-121.080370 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:43209
 DS_ID:23165
 EP_NO: N/A
 FS_HLM: 4.669
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Appears abandoned and if so should be done so properly.
 FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through levee 15.0 feet below crown. Abandoned concrete inlet box on the waterward slope of levee. 6'X5' Concrete distribution box at the landward toe.
 Originally included in the 1961 O&M manual.
 FS Date: 01/29/2015

LM Start	4.59	Rating **	M	Issue No.	59 (cont)
LM End	4.59	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_1955.jpg



Abandoned concrete box on WS slope.

Photo 2 of 3 : UCIP_FA_2015_1956.jpg



Open CMP pipe through levee at distribution box on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	4.59	Rating **	M	Issue No.	59 (cont)
LM End	4.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.497390 °	37.497390 °
				-121.080370 °	-121.080370 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43209 DS_ID:23165 EP_NO: N/A FS_HLM: 4.669 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_1957.jpg



Distribution box on LS toe.

LM Start	5.66	Rating **	A/W	Issue No.	11
LM End	5.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.486090 °	37.485839 °
				-121.067612 °	-121.067357 °
DWR ID	DWR_RD2091_01_s_2015_11				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: The LMA has implemented a rodent program. No visible rodents and rodent holes.					

Photo 1 of 1 : FA_2015_RD2091_318_11_20150914_00003.jpg



Looking at typical view of rodent holes on the landward slope and toe.

LM Start	5.92	Rating **	M	Issue No.	12
LM End	5.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.485998 °	37.485998 °
				-121.063323 °	-121.063323 °
DWR ID	DWR_RD2091_01_f_2015_12				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_RD2091_318_12_20151005_00011.jpg



Looking at untrimmed tree on landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	6.20	Rating **	M	Issue No.	60
LM End	6.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.486060 °	37.486060 °
				-121.058790 °	-121.058790 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:43221

DS_ID:23166

EP_NO: N/A

FS_HLM: 6.314

Repair Type: Non-Urgent

Crossing Status: Indicator Found

UCIP Comments:

FIELD_STRUCT_DESC: *Removed* 36-inch corrugated metal pipe through levee 15.0 feet below crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete distribution box at the landward toe. Slide gate on the landward end. Concrete standpipe on the waterward berm. Pump on pile stream. Originally included in the 1961 O&M manual. Pipe removed under Permit No. 4421. Design drawings available in Permit No. 4421.

FS Date: 01/29/2015

LM Start	6.20	Rating **	M	Issue No.	60 (cont)
LM End	6.20	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_1958.jpg



Abandoned pier off WS toe.

Photo 2 of 3 : UCIP_FA_2015_1959.jpg



Concrete distribution box on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	09/29/2015 09/29/2015	Richard Willoughby

LM Start	6.20	Rating **	M	Issue No.	60 (cont)
LM End	6.20	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.486060 °	37.486060 °
				-121.058790 °	-121.058790 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43221 DS_ID:23166 EP_NO: N/A FS_HLM: 6.314 Repair Type: Non-Urgent Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP_FA_2015_1960.jpg



Abandoned CMP riser on WS slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 2091 Chase

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River				0.05
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	05/26/2015 - 05/26/2015		09/29/2015 - 09/29/2015	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05	09/29/2015 09/29/2015	Richard Willoughby

LM Start	0.02	Rating **	U	Issue No.	15
LM End	0.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.482450 °	37.482450 °
				-121.051220 °	-121.051220 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43206 DS_ID:23175 EP_NO: N/A FS_HLM: 0.023 Repair Type: Urgent Crossing Status: Found UCIP Comments: Flap gate rusted in-place and does not function. In closed position. FIELD_STRUCT_DESC: 24-inch corrugated metal drain pipe through levee 16.4-feet below the crown. Flap gate on the waterward toe. FS Date: 01/29/2015					

Photo 1 of 1 : UCIP_FA_2015_1961.jpg



24-inch CMP with flapgate visible on WS toe.

LM Start	0.03	Rating **	M	Issue No.	1
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.482523 °	37.482523 °
				-121.051103 °	-121.051103 °
DWR ID	DWR_RD2091_02_s_2012_1				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 2 : FA_2015_RD2091_319_1_20150914_00001.jpg



Looking east at untrimmed trees on waterward slope. (Fall 2014)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05	09/29/2015 09/29/2015	Richard Willoughby

LM Start	0.03	Rating **	M	Issue No.	1 (cont)	
LM End	0.03	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.482523 °		37.482523 °
				-121.051103 °		-121.051103 °
DWR ID	DWR_RD2091_02_s_2012_1					
Action/Comments						
Thin trees to allow visibility of the ground and room to flood fight.						

Photo 2 of 2 : FA_2015_RD2091_319_1_20150914_00002.jpg



Looking east at untrimmed tree on waterward slope. (Spring 2014)

LM Start	0.05	Rating **	A/W	Issue No.	2
LM End	0.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.482815 °	37.482815 °
				-121.050849 °	-121.050849 °
DWR ID	DWR_RD2091_02_f_2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Control tumble weeds on landward slope.					

Photo 1 of 1 : FA_2015_RD2091_319_2_20150914_00003.jpg



Looking north at tumble weeds on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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